**Remote Call Forwarding (3004,4019,5014,8025)**

Remote Call Forwarding (RCF) is a service that utilizes a Directory Number (DN) to automatically forward all incoming calls to another DN. The forwarded to number can be in the same central office switch or in another central office switch.

The remote call forwarding directory number is not directly associated with an access connection arrangement, but rather is a software translation programmed within the central office switch. All calls dialed to that directory number will forward to another number automatically. The subscriber to thiscapability does not have a station set for termination of calls made to their remote call forwarding number.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Remote Call Forwarding | BA - Remote Call Forwarding | CNS |
| | BS - Remote Call Forwarding | CNS |
| | NX - Remote Call Forwarding | CNS |
| | Qwest - Market Expansion Line | BSE |

Reference: GR-581 LSSGR: Remote Call Forwarding FSD 01-02-1402 (A Module of LSSGR, FR-64),Issue 1, June 2000 (replaces TR-TSY-000581 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

**Remote Call Forwarding On DID Lines (8057)**

This service is an Advanced Intelligent Network (AIN) capability that allows Remote Call Forwarding on Direct Inward Dialed (DID) lines. It also allows the calls to be forwarded on a scheduled basis.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Remote Call Forwarding On DID Lines | Qwest – Call Planner | CNS |

FEATURE OPERATION:

This AIN service allows remote call forwarding on DID lines. It also allows the calls to be forwarded on a scheduled basis. This service will be available with the following DID services:

- Primary Rate ISDN (Voice Only)

- Advanced DSS 2-Way and In-Only

- TDD In-Only

AIN Remote Call Forwarding on DID Lines is an AIN service and is available in switches within the established AIN Local Calling Area. It is available in the following switch types:

- Lucent 5ESS

- Lucent 1A ESS

- Nortel DMS-100

Reference: not available.

**Security Screen (8056)**

Security Screen is an Advanced Intelligent Network (AIN) feature that provides subscribers with the ability to screen Private/Anonymous and Out Of Area/Unknown calls that are placed to their number.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Security Screen | Qwest – Security Screen | CNS |

FEATURE OPERATION:

Security Screen prompts unidentified callers to press 1 to unblock their calling party information, or to press 2 to input the number they are calling from. Security Screen advises callers to hang up if they are solicitors. If a caller chooses not to unblock their calling information or enter their calling number, Security Screen will advise the caller that their call cannot be completed, and will terminate the call or transfer the call to the subscriber's voice mail. If a caller chooses to unblock their line or enter their calling party information, the service alerts the subscriber of the incoming call with a distinctive ring, and the caller's number and name (if available) are displayed on the subscriber's Caller ID unit. Security Screen can be turned on and off by the subscriber. A customer who subscribes to Security Screen must also subscribe to Caller Identification (Name and Number).

Security Screen is available in all Lucent 1A ESS, Lucent 5ESS, and Nortel DMS-100 switches that are AIN capable. It is not compatible with DID, ISDN, Digital Services, and Custom Ringing in a DMS 100.

Reference: not available.

**Selective Call Waiting (8061)**

Selective Call Waiting is a premium version of Call Waiting that allows the subscriber to establish and modify a list of telephone numbers that trigger the Call Waiting tone when the subscriber's line is in use. Calls from telephone numbers not on the list, or calls from unidentified callers will either be routed to voice mail (if subscriber has voice mail) or they will be routed to an announcement that will tell the caller that the line is busy and to try their call later.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Selective Call Waiting | Qwest – Selective Call Waiting | CNS |

Reference: not available.

**Service Code Denial On Line Or Hunt Group (6005)**

This screening option disallows completion of terminating calls to local directory assistance (411, 555-1212), to service codes 611 and 911, and to local operator assistance (0-, 00-). Blocked calls are routed to a reorder tone or a recorded announcement.

Service Code Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Service Code Denial On Line Or Hunt Group | PB - Service Code Denial On Line Or Hunt Group | BSE |

Reference: GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

**Surrogate Client Number (4002)**

This capability provides a method for customers of an ESP to have a "presence" in the ESP's serving office as a "virtual telephone number." This capability will allow an ESP to identify the "calling number" of customers served by central offices where demand is insufficient to justify a Foreign Central Office (FCO) arrangement for calling number identification services such as SMDI that are currently limited by technology to intraoffice applications only.

This capability is presently only feasible from 1A ESS switches. This capability cannot be used with Call Forwarding Don't Answer to a DID number. This capability is limited to intraoffice operation.

| Generic Name of ONA Service | Product Name | BSE or CNS |
| --- | --- | --- |
| Surrogate Client Number | BS - Surrogate Client Number | BSE |

Reference: GR-581 LSSGR: Remote Call Forwarding FSD 01-02-1402 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000581 Issue 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

**Switched 56 Kilobit Service (3019,4021,5036)**

Switched 56 Kilobit Service enables subscribers to transmit and receive data at the rate of 56 kilobits per second. Customers requiring InterLATA/Interstate transport can subscribe to an Interexchange Carrier that has Switched 56 Kilobit Service connectivity. The telephone company may offer Switched 56 Kilobit Access Service using Feature Group D protocol arrangements.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Switched 56 Kilobit Service | BA - Switched 56 Kilobit Service | BSA |
| | BS - AccuPulse[®] | BSA |
| | NX - Switchway | BSA |

FEATURE OPERATION:

Customers establish calls by dialing 7 or 10 digits as they would for a POTS call. Calls can only terminate to another Switched 56 line and cannot be used for normal voice communications.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

| Switch Type | 1A ESS | 5ESS |
|---|---|---|
| Earliest Generic Release | 1AE8 | 5E6 |

2. This service is offered from specially equipped 1A ESS and 5ESS switches using facilities that are designed to accommodate 56 kilobits per second, full duplex, synchronous transmission. Remote access arrangements are available for customer locations not within the local wire center area of the specially equipped switches.

3. Subscriber loops from the local central office to customers' premises must be 4-wire, non-loaded facilities that can be designed to meet the specifications of Digital Data Service.

4. Interoffice facilities are specially equipped and are dedicated to the transport of Switched 56 Kilobit Service traffic. Access facilities are also specially equipped and dedicated to Switched 56 Kilobit Service.

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[®] AccuPulse is a registered service mark of BellSouth Corporation.

5. Customers' CPE must be Accunet Compatible.

6. References:

   - GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

   - MDP-326-726 Digital Data System Channel Interface Specification, Issue 1, September 1983 [no longer listed].

This service is associated with the Circuit Switched Trunk basic serving arrangement.

**Third Number Billing Inhibited (4012,7067)**

This capability provides Enhanced Services Providers (ESPs) with the ability to prevent third number calls from being billed to their switched access billing accounts, (e.g., DID numbers). This capability is provided by the operating procedures of a BOC providing operator services capabilities.

When a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator makes a call to the third number for verification that the charges will be accepted. If no answer is received when the third number is called for verification of billingacceptance, the bill to third request is rejected.

In some areas, when a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator queries the Line Information Database (LIDB) to determine the billed party's preference concerning bill to third number requests. If the information in the LIDB indicates to always reject bill to third party attempts, then the bill to third request is rejected.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Third Number Billing Inhibited | BS - Billed Number Screening * | BSE or CNS |
| | SWB - Billed Number Screening | CNS |

Reference: FR-271 (replaces FR-NWT-000271) Operator Service Systems Generic Requirements (OSSGR), Issue 005, April 2008. See FSD 85-01-0300 for information about Third Number Billing, see GR-1177 OSSGR: Special Billing Features (FSD 85 Series), A Module of OSSGR, FR-271 & FD-LECKIT-CD-01, Issue 3 – August 2005.

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* This capability is available throughout the BellSouth region upon customer request.

**Three Way Calling (3020,4020,5019,8028)**

Three Way Calling (TWC) allows a customer to add a third party to an existing conversation without operator assistance. The party initiating TWC may hold one party with privacy exclusion while dialing and talking with another party and can later include the held party in TWC.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Three Way Calling | BA - Three Way Calling | BSE |
| | BS - Three Way Calling | CNS |
| | NX - 3 Way Calling | BSE |
| | Qwest - Three Way Calling | BSE |

FEATURE OPERATION:

A customer subscribing to TWC is able to add a third party to a stable call regardless of which party originated the call. The subscribing customer flashes his switch-hook, receives recall dial tone, dials the third party, and flashes the switch-hook again. The third party may be added to the call while the station is receiving ringing or the subscribing customer may speak with the third party in private prior to adding the third party to the stable call.

The third party will be disconnected from the call if the party initiating the TWC flashes the switch-hook.

If the party initiating the TWC disconnects, all parties are disconnected.

If a party other than the party initiating the TWC disconnects, the remaining two parties may continue the call.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1.  This feature is available in the following central office switches:

| Switch Type | 1A ESS | 5ESS | DMS-100 |
|---|---|---|---|
| Earliest Generic Release | 1AE8 | 5E2 | BCS17 |

2.  Recursive use of TWC is limited only by resources of the switching system and transmission capabilities (A adds on B, B adds on C, C adds on D, etc.)

3.  Dialing restrictions of a station continue in effect when dialing a party to be added on.

4.  Speed Calling can be used when adding a party.

5.  The initiator of TWC should not receive a Call Waiting tone. Other parties on the call can receive and respond to a Call Waiting tone.

6. Either or both legs of a three way call may be an interexchange or international call.

7. TWC is not available on lines with two or more parties.

8. References:

   • GR-577 LSSGR: Three-Way Calling, FSD 01-02-1301 (A Module of LSSGR, FR-64), Issue 1, June 2000 (replaces TR-TSY-000577 Issue 1 & Revision 1 – no technical changes).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

**Traffic Data Reports (4016,5012,8016)**

This capability will provide ESPs with periodic (e.g., weekly) printed summaries of traffic data on their network facilities that are associated with central office switches. Traffic data reports include traffic information such as number of call attempts (peg count), number of blocked calls (overflow), and usage by ESP trunk group (minutes of use). The standard methods for delivering this information are paper printouts or magnetic tape in a standard format.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Traffic Data Reports | BS - Access To Traffic Data/Network Usage Information Service | BSE |
| | NX - Business Traffic Study Service | BSE |
| | Qwest - Traffic Data Report Service | BSE |

References:

- TR-NWT-000335 Voice Grade Special Access Service - Transmission Parameter Limits and Interface Combinations, Issue 3, May 1993

- Also see Recommendation X.25 of the ITU-TS [formerly CCITT] Red Book.

This service, if offered as a BSE, may be associated with the Circuit Switched Line or Trunk basic serving arrangements.

**Transmission Improvement for Circuit Switched Services (8012)**

This capability provides the ESP with a high quality transmission line for use on local switched service. It provides transmission performance between 0 and 4 dB at 1000 Hz between the network interface at the subscriber's location and the serving central office switch.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Transmission Improvement for Circuit Switched Services | Qwest - Improved Transmission Performance | BSE |

References: GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, July 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

**Wireless Extension (8060)**

Wireless Extension is an ONA service which enables the integration of Wireline and wireless service. It enables the subscriber to arrange to have calls routed from their wireless handset to their Wireline phone or forward directly into their voice mail box. Wireless Extension is a forwarding feature, operating on the circuit switched voice platform, which uses AIN (Advanced Intelligent Network) capability for call processing and control.

Wireless Extension is available in selected 5ESS and DMS-100 central offices equipped with AIN, where technically available.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Wireless Extension | Qwest – Wireless Extension | CNS |

References: not available.

3.    **Appendix 1 - Region Specific Services - Technical Descriptions for Packet Switched Access Arrangements**

**Abbreviated Call - Packet (8036)**

This capability allows the customer to access predefined addresses by utilizing a predesignated unique alphanumeric character(s) in lieu of the normal call initiation process.  The port is not limited to sole access of the predefined address when normal call initiation procedures are followed.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Abbreviated Call - Packet | Qwest - Abbreviated Call - Packet | CNS |

**Default Window Size - Packet (5022,8007)**

This permits the customer to select a nonstandard default window size of three in one or both directions of transmission. If nonstandard default window sizes are not selected, the default window size of two will apply to both directions of transmission. Default window sizes are set at subscription time.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Default Window Size - Packet | NX - Default Window Size | BSE or CNS |
| | Qwest - Nonstandard Window Size - Packet | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Flow Control Parameter Negotiation - Packet (8003)**

Flow control allows the data receiver to limit the rate at which it accepts data by controlling the window size and maximum packet size for each direction of transmission. Negotiation is done on a per call basis during the call setup.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Flow Control Parameter Negotiation - Packet | Qwest - Flow Control Parameters (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Incoming Calls Barred - Packet (5024,8001)**

Incoming Calls Barred allows the customer the option to prevent incoming virtual circuit calls from being sent to their data terminal equipment (DTE). When used in conjunction with a Closed User Group (CUG) this feature prevents individual members of the CUG from receiving calls from outside of the CUG. This option will allow call origination only.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Incoming Calls Barred - Packet | NX - Incoming Calls Barred | BSE or CNS |
| | Qwest - CUG Incoming Access Barred (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Logical Channels - Packet (8005)**

Logical Channels capability allows the data terminal equipment (DTE) to derive multiple logical channels from a single physical access line. This is accomplished by specifying the logical channelnumber on every packet which crosses the network interface.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Logical Channels - Packet | Qwest - Logical Channel (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Logical Channel Layout - Packet (8004)**

This capability permits the arrangement of logical channels to be configured as incoming, outgoing, two way and/or private virtual circuit. The logical channel layout is established at subscription time.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Logical Channel Layout - Packet | Qwest - Logical Channel Layout (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Multiple Network Addresses/Port - Packet (3001,5027,8006)**

This capability allows more than one network address to be assigned to a single access port. Multiple addresses can be purchased in blocks, up to a maximum number of 1000. Messages are delivered according to predetermined customer specifications.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Multiple Network Addresses/Port | BA - Multiple Network Addresses (Packet) | BSE |
| | NX - Multiple Network Addresses/Port | BSE or CNS |
| | NX – Multiple Network Addresses | BSE or CNS |
| | Qwest - Multiple Network Addresses (Packet) | BSE |

Reference: Bell Atlantic Technical Reference 72211, Interface Specification for the Bell Atlantic Public Data Network, Issue C, December 1991.

This service, if offered as a BSE, is associated with the Packet Switched X.25 basic serving arrangement.

**Outgoing Calls Barred (5028,8002)**

This capability allows the customer the option to prohibit outgoing virtual calls for their data termind equipment (DTE). When used in conjunction with a Closed User Group (CUG) this feature prevents individual members of the CUG from establishing calls outside of the CUG. This option will allow the receipt of incoming virtual circuit calls only.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Outgoing Calls Barred - Packet | NX - Outgoing Calls Barred | BSE or CNS |
| | Qwest - CUG Outgoing Access Barred (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Permanent Virtual Circuit - Packet (5029,8008)**

Permanent virtual circuits are the electronic equivalent of a private line between two points. At the customer's option, a virtual circuit is established between two customer data terminal locations (DTEs) within the network on a dedicated basis. These two locations are electronically connected, operating similar to a private line between the two points. The association between the two DTEs is established via service provisioning.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Permanent Virtual Circuit - Packet | NX - Permanent Virtual Circuit | BSE or CNS |
| | Qwest - Permanent Virtual Circuit (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 and X.75 basic serving arrangements.

**Reverse Charge Request Option (Packet) (5030,8009)**

Reverse charging allows the originating user to request that the call be charged to the called party during call setup. The reverse charging call request is delivered to the called party only when their data terminal equipment (DTE) is configured for Reverse Charge Acceptance. If the terminating DTE does not subscribe to Reverse Charge Acceptance, the call will be cleared.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Reverse Charge Request Option (Packet) | NX - Reverse Charge Request | BSE or CNS |
| | Qwest - Reverse Charge Option (Packet) | BSE |

Reference: GR-301 Public Packet Switched Network Generic Requirements (PPSNGR), Issue 2, December 1997 (replaces TR-TSY-301, Issue 2).

This service, if offered as a BSE, is associated with the Packet Switched X.25 basic serving arrangement.

**4.   Appendix 1 - Region Specific Services - Technical Descriptions for Dedicated Access Arrangements**

**Access To Customer Premises Announcement (5035)**

This feature allows an ESP to furnish customized announcement services to an Automated Call Distribution customer.  ACPA connects callers in the ACD queue to customer provided announcements or music.  Using this feature the ESP can provide and manage announcements on behalf of the customer.  The ESP requires private line access for each ACPA arrangement.

| Generic Name of ONA Service | Product Name | BSE or CNS |
|---|---|---|
| Access To Customer Premises Announcements | NX – Extended Basic Referral | BSE |

FEATURE OPERATION:

The ESP furnishes an announcement to the ACPA port over a private line.  The ACD will automatically connect a caller in queue to the ACPA port when the feature is present.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1.  This feature is available in the following central office switches:

| Switch Type | DMS-100 |
|---|---|
| Earliest Generic Release | BCS36 |

2.  This is a feature of Automatic Call Distribution.